ANNALS of PHYSICS

Editor
Herman Feshbach

Assistant Editors
A. Dalgarno
Henry Ehrenreich
Roman W. Jackiw
Arthur M. Jaffe

Editorial Council
A. Arima
D. Brink
S. Deser
J. Eisenberg
J. A. Golovchenko
L. Kadanoff
S. E. Koonin
Y. Nambu
L. Okun
J. P. Ostriker
R. V. Pound
D. Scalapino
F. Wilczek
C. M. Will
K. Wilson

Founding Editors
Philip M. Morse
Bernard T. Feld Herman Feshbach Richard Wilson

VOLUME 240 • 1995

ACADEMIC PRESS

San Diego New York Boston
London Sydney Tokyo Toronto

Copyright © 1995 by Academic Press, Inc.

ALL RIGHTS RESERVED

No part of this publication may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopy, recording, or any information storage and retrieval system, without permission in writing from the copyright owner.

The appearance of the code at the bottom of the first page of an article in this journal indicates the copyright owner's consent that copies of the article may be made for personal or internal use, or for the personal or internal use of specific clients. This consent is given on the condition, however, that the copier pay the stated per copy fee through the Copyright Clearance Center, Inc. (222 Rosewood Drive, Danvers, Massachusetts 01923), for copying beyond that permitted by Sections 107 or 108 of the U.S. Copyright Law. This consent does not extend to other kinds of copying, such as copying for general distribution, for advertising or promotional purposes, for creating new collective works, or for resale. Copy fees for pre-1995 articles are as shown on the article title pages; if no fee code appears on the title page, the copy fee is the same as for current articles.

0003-4916/95 $9.00

This journal is printed on acid-free paper.

Printed by Catherine Press, Ltd., Brugge, Belgium

CONTENTS OF VOLUME 240

Number 1, May 15, 1995

Giovanni Jona-Lasinio, Carlo Presilla, and Johannes Sjöstrand. On Schrödinger Equations with Concentrated Nonlinearities 1

P. O. Hess, J. Schmidt, and W. Scheid. Nuclear Molecular Potentials Based on a Symplectic Microscopic Model 22

M. A. Kagarlis, Mikkel B. Johnson, and H. T. Fortune. A Microscopic, Coupled-Channel Theory of Pion Scattering 56

G. W. Botz, D. Bruss, and O. Nachtmann. Polarization Rotation Effects Due to Parity Violation in Atoms 107

Pietro Menotti and Domenico Seminara. Energy Theorem for $(2+1)$-Dimensional Gravity 203

Abstracts of Papers to Appear in Future Issues 222

Number 2, June 1995

V. V. Kosachev and A. V. Shchegrov. Dispersion and Attenuation of Surface Acoustic Waves of Various Polarizations on a Stress-Free Randomly Rough Surface of Solid 225

D. R. Phillips and I. R. Afnan. The Classification of Diagrams in Perturbation Theory 226

G. Feldman and T. Fulton. Radiative Corrections in the Many-Particle and Dirac–Fock Approximations: Two Branches from a Common Origin 315

J. G. Muga, S. Brouard, and D. Macías. Time of Arrival in Quantum Mechanics 351

Elisabeth Kraus. The Structure of the Invariant Charge in Massive Theories with One Coupling 367

Lee Brekke. Baryon Magnetic Moments in Quark Models with Anomalous Quark Moments 400

Harald H. Soleng and Øyvind Grøn. Modification of the Coulomb Potential from a Kaluza–Klein Model with a Gauss–Bonnet Term in the Action 432

Abstracts of Papers to Appear in Future Issues 459

Author Index for Volume 240 461

22 576HI XL 137
12/95 31249-150 NJLB